Temperature data logger for 3x thermocouples, 1x external Pt1000 probe and 1x internal sensor

code: U0246



Datalogger is designed to record temperature from three thermocouples, one Pt1000 probe and one internal temperature sensor.
The recording is performed in a non-volatile electronic memory. The data can be transferred to a PC via USB-C.
In case of exceeded set limits alarms are indicated by LED, LCD and acoustically by built-in beeper.

The device **includes Traceable calibration certificate** with declared metrological traceability of etalons is based on requirements of **EN ISO/IEC 17025 standard.**

Technical data

TEMPERATURE SENSOR - internal probe	
Measuring range	-30 to +70 °C
"Accuracy	±0.4°C;"
Resolution	0.1 °C
Response time of temperature measurement (temperature step 20°C, air flow approximately 1m/s)	t63 < 6 minutes; t90 < 15 minutes
TEMPERATURE SENSOR - external probe Pt1000	
Measuring range	-200 to +260 °C
"Accuracy	±0.2°C; ±0,2 % of the measurement value in a range of +100 to +260 °C"
Resolution	0.1 °C
"Response time t90 of temperature measurement (temperature step 20°C, air flow approximately 1m/s)	according to the connected probe"
TEMPERATURE SENSOR - THERMOCOUPLE TYPE B, J, K, N, S, T	
Measuring range type K and N	-200 to +1300 °C
Measuring range type J	-200 to +750 °C
Measuring range type S	0 to 1700 °C
Measuring range type B	250 to 1800 °C, cold junction is not compensated
Measuring range type T	-200 to +400 °C
Measuring range of DC voltage	-70 to +70 mV
Accuracy for types J, K, N, T	± (|0,3 % of the measurement value|+1,5 °C)
Accuracy for types B and S	± (|0,5 % of the measurement value| +5 °C)
Accuracy for DC voltage	± 70 µV
Resolution	0,1 °C
Response time	according to the connected thermocouple
GENERAL TECHNICAL DATA	
Operating temperature	-30 to +70 °C
Channels	3x thermocouple, 1x external Pt1000

Memory	500,000 values in noncyclic logging mode; 350,000 values in cyclic record mode
"Recording interva	adjustable from 1 s to 24 h"
"Interval for measuring and evaluating alarms	adjustable 1 s, 10 s, 1 min"
Recording mode	noncyclic - data logging stops after filling the memory cyclic - after filling memory oldest data is overwritten by new
"Real time clock	year, leap year, month, day, hour, minute, second"
Power	Lithium battery 3.6 V, size AA
Protection class	IP20
Dimensions	61 x 93 x 53 mm
Weight (including batteries)	cca 130 g
Warranty	3 years